

20010902.qrp v02_n300.qrl.20010902

Date: Sun, 2 Sep 2001 19:03:09 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2300

QRP-L Digest 2300

Topics covered in this issue include:

- 1) [106239] TEST don't read
by "Pastor-KC1DI" <elbc@pivot.net>
- 2) [106240] FS: Z11 Auto Tuner-MINT!
by "Larry Spinner" <n2icz@hotmail.com>
- 3) [106241] WIRE FOR BALUNS
by "DONALD G. DORN" <DDORN@CWIS.NET>
- 4) [106242] OPERATING - PSK31 Warbler from Louisiana
by n5ib@juno.com
- 5) [106243] Appalachian Trail Activation on Sunday
by "Ron Polityka" <wb3aal@fast.net>
- 6) [106244] Re: WIRE FOR BALUNS
by Philip r schweitzer <prschweitzer@juno.com>
- 7) [106245] Re: Whereis the ZM-2 tuner kit?
by Ed Lawson <elawson@lawson-philpot.com>
- 8) [106246] Re: Powdered Iron Cores!!!!
by "Karl F. Larsen" <k5di@zianet.com>
- 9) [106247] Tuner Tests
by "Karl F. Larsen" <k5di@zianet.com>
- 10) [106248] Re: Powdered Iron Cores!!!!
by Ed Lawson <elawson@lawson-philpot.com>
- 11) [106249] Re: Powdered Iron Cores!!!!
by "James R. Duffey" <jamesd1@flash.net>
- 12) [106250] For Sale: Complete QRP Station
by Kr01a@aol.com
- 13) [106251] PSK-31
by n5ib@juno.com
- 14) [106252] Re: Powdered Iron Cores!!!!
by <baltimoremd@baltimoremd.com>
- 15) [106253] Re: Random Wire Antenna Corrosion [LONG]
by Steve Yates <aa5tb@yahoo.com>
- 16) [106254] Re: Math Theory Help
by Donald E Sanders <w4bws@juno.com>
- 17) [106255] aNT hALP....
by Joel M Denison <hamjoel@juno.com>
- 18) [106256] Evaluate your antenna tuner
by ARDUJENSKI@aol.com
- 19) [106257] Coffee controversy brewing

- by ARDUJENSKI@aol.com
- 20) [106258] Re: Coffee controversy brewing
by ARDUJENSKI@aol.com
 - 21) [106259] Re: Z11 Auto Tuner-MINT!
by "Larry Spinner" <n2icz@hotmail.com>
 - 22) [106260] Late Night Radio - thrown for a Loop!
by "N7SG K7FD" <k7fd@hotmail.com>
 - 23) [106261] Re: Evaluate your antenna tuner
by "Chuck Carpenter" <w5usj@globeco.net>
 - 24) [106262] Internet Address Change
by Ken Newman <N2CQ@citnet.com>
 - 25) [106263] QRP ARCI members
by Mark R Milburn <mark.milburn@juno.com>
 - 26) [106264] RE: Coffee controversy brewing
by "John L. Sielke" <w2agn@pobox.com>
 - 27) [106265] OT: digital camera for ham pictures
by ARDUJENSKI@aol.com
 - 28) [106266] Re: digital camera for ham pictures
by "ss lyon" <sslyon@megalink.net>
 - 29) [106267] Re: OT: digital camera for ham pictures
by adamvaz@palm.net (Adam Vazquez)
 - 30) [106268] RE: Coffee controversy brewing
by Nick Kennedy <nkennedy@tcainternet.com>
 - 31) [106269] RE: Coffee controversy brewing
by Dave Fouchey <dafouchey@home.com>
 - 32) [106270] Re: digital camera for ham pictures
by "ZOOM" <kandrparker@sympatico.ca>
 - 33) [106271] Re: digital camera for ham pictures
by "Richard Brummer, K2JQ" <k2jq@bestweb.net>
 - 34) [106272] Re: digital camera for ham pictures
by "Bud Haynes" <KV7G@prodigy.net>
 - 35) [106273] Re: Tuner Tests
by "James R. Duffey" <jamesd1@flash.net>
 - 36) [106274] Re: Late Night Radio - thrown for a Loop!
by Steve Yates <aa5tb@yahoo.com>
 - 37) [106275] Re: OT: digital camera for ham pictures
by Bruce Muscolino <w6toy@erols.com>
 - 38) [106276] Re: Coffee controversy brewing
by "Brian Murrey" <brian@iquest.net>
 - 39) [106277] Re: errata-OT: digital camera for ham pictures
by adamvaz@palm.net (Adam Vazquez)
 - 40) [106278] Re: Coffee controversy brewing
by "Brian Murrey" <brian@iquest.net>
 - 41) [106279] Re: digital camera for ham pictures
by Stephan Greene <sgreene@patriot.net>
 - 42) [106280] Re: Coffee controversy brewing
by "John L. Sielke" <w2agn@pobox.com>
 - 43) [106281] L@@King for QRP

- by IamSF5@aol.com
- 44) [106282] RE: Math Theory Help-- boring vocabulary
by Nick Kennedy <nkennedy@tcainternet.com>
- 45) [106283] SV: digital camera for ham pictures
by "Hans Sundstrom" <hans.sundstrom@telia.com>
- 46) [106284] Tuner Efficency
by "Karl F. Larsen" <k5di@zianet.com>
- 47) [106285] ZM-2 Transformer test
by "Karl F. Larsen" <k5di@zianet.com>
- 48) [106286] FS: S38, KnightSMiTe, QF-1A
by "Jim Sweeden" <Jim_Sweeden@beavton.k12.or.us>
- 49) [106287] Re: digital camera for ham pictures
by "Paul Christensen" <paulc@mediaone.net>
- 50) [106288] Re: digital camera for ham pictures
by Dave Fouchey <dafouchey@home.com>
- 51) [106289] Re: FS: S38, KnightSMiTe, AF-1A
by "Jim Sweeden" <Jim_Sweeden@beavton.k12.or.us>
- 52) [106290] Sony, no Balony!
by RLucch2098@aol.com
- 53) [106291] Re: digital camera for ham pictures
by <baltimoremd@baltimoremd.com>
- 54) [106292]
by "M. Neiner" <polohat@yahoo.com>
- 55) [106293] Re: Tuner Tests
by "James R. Duffey" <jamesd1@flash.net>
- 56) [106294] Dipole Height
by "M. Neiner" <polohat@yahoo.com>
- 57) [106295] Re: digital camera for ham pictures
by "Charles W3KC" <w3kc@starpower.net>
- 58) [106296] Tuning Antennas
by "Kevin Nathan" <k7rx@earthlink.net>
- 59) [106297] Digital Camera Reviews Website
by Jack WsixABC <w6abc@yahoo.com>
- 60) [106298] Re: Tuner Efficency
by "James R. Duffey" <jamesd1@flash.net>
- 61) [106299] ZM-2 toroid test
by "Karl F. Larsen" <k5di@zianet.com>
- 62) [106300] RE: Math Theory Help - Calculator
by Nick Kennedy <nkennedy@tcainternet.com>
- 63) [106301] SV: digital camera for ham pictures
by "Hans Sundstrom" <hans.sundstrom@telia.com>
- 64) [106302] Digital camera suggestions: Olympus Camedia D-360L
by Jim Larsen AL7FS <AL7FS@pobox.alaska.net>
- 65) [106303] Re: Dipole Height
by Dave Sjolín <sjolin@swbell.net>
- 66) [106304] Evaluate Your Antenna Tuner- 1995 QST mag.
by n4so@juno.com
- 67) [106305] Re: Digital camera suggestions: Olympus Camedia D-360L

- by Chris Trask <ctrask@qwest.net>
- 68) [106306] Re: Digital camera suggestions: Olympus Camedia D-360L
by "ZOOM" <kandrparker@sympatico.ca>
- 69) [106307] Sprat 108
by "G3MFJ" <g3mfj@btinternet.com>
- 70) [106308] Re: WIRE FOR BALUNS
by "Mike Branca" <w3irz@att.net>
- 71) [106309] free contest logging software for Palm computers
by "David Ek" <ekdave@earthlink.net>
- 72) [106310] Re: digital camera for ham pictures
by "David Adams" <david@theadamsclan.com>
- 73) [106311] Antenna Design
by "Brice D. Hornback" <bdh@cyberbound.net>

Date: Sat, 1 Sep 2001 19:19:30 -0400
From: "Pastor-KC1DI" <elbc@pivot.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [106239] TEST don't read
Message-ID: <001d01c1333c\$8e84b280\$1571ccd8@elbc>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

TEST

Date: Sat, 1 Sep 2001 19:36:54 -0400
From: "Larry Spinner" <n2icz@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [106240] FS: Z11 Auto Tuner-MINT!
Message-ID: <0E64NGYyICtzIiUwB0j00001ab1@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang,

I have for sale an LDG Electronics Z11 Automatic Antenna Tuner. It is a factory assembled model and only a few months old. It's in mint condition.

Price: \$150 postage paid CONUS! PayPal preferred. MO is fine.

I'm offering it here first before the eBay crowd.

Thanks.

Larry-N2ICZ

Date: Sat, 01 Sep 2001 18:51:01 -0500
From: "DONALD G. DORN" <DDORN@CWIS.NET>
To: Low Power Amateur Radio Discussion <QRP-L@LEHIGH.EDU>
Subject: [106241] WIRE FOR BALUNS
Message-ID: <3B917465.625A7C31@CWIS.NET>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Has anybody tried using zip cord for winding baluns? Just wondering.

Don K5AAR

Date: Sat, 01 Sep 2001 20:14:38 EDT
From: n5ib@juno.com
To: qrp-l@Lehigh.edu
Subject: [106242] OPERATING - PSK31 Warbler from Louisiana
Message-ID: <20010901.190636.4647.0.n5ib@juno.com>

At long, long, last I have a computer capable of running DigiPan close enough to my NJQRPC Warbler to actually get it on the air.

I will be monitoring and or calling this evening. Anybody in range of 3 watts from Baton Rouge give a listen or a call

72
Jim N5IB

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<http://dl.www.juno.com/get/tagj>.

Date: Sat, 1 Sep 2001 20:17:44 -0400
From: "Ron Polityka" <wb3aal@fast.net>

To: ".Mtn-Top" <HamRadio_Mountaintopping@yahoogroups.com>,
". NJ QRP-L" <njqrp@njqrp.org>, ". QRP-L" <qrp-l@Lehigh.EDU>,
Subject: [106243] Appalachian Trail Activation on Sunday
Message-ID: <00d501c13344\$b2aa9140\$cb095cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

**** Well I should be on the air on Sunday morning around 11:00 UTC from the Appalachian Trail in PA. I am planning to start operating on 20 meters around 14.060 to 14.065 until 13:00 UTC. I will check out 17,15, 12 and 10 meters also during this period, all the QRP frequencies. Then at 13:00 UTC I will go to 7.040 to 7.045 and operate until 15:00 UTC. Then I plan on going back to 20, 17, 15, 12 or 10 meters for band openings. I should be packing up around 17:00 UTC to go home. Hopefully we do not have any Solar Flares like last week. So look for WB3AAL on the AT in PA.

**** Look for Nick, K3NY, on the Appalachian Trail in NC. He will be on the air between 15:00 and 16:00 UTC on 14.060 +/- for QRM. Check the Weather Channel for the current wx on the GA and NC area. If it is raining, Nick will not be on the air. There is a possibility of sever storms for the area tomorrow.

**** Look for Ed, WA3WSJ, on the Appalachian Trail in PA starting around 14:00 UTC. He will be on 40 and 20 meters around the QRP frequencies.

**** Look for Jim, KD1YV and Chris, N1NIQ, on the Appalachian Trail in NY on Sunday. They don't have the exact times but look around late morning to early afternoon time frame. They should be able to work 20 and 40 without too much trouble on SSB and CW. If Jim can get his work notebook configured and interfaced in time, they may be able to try some PSK31.

72 & 73
Ron de WB3AAL
www.n3epa.org

Date: Sat, 1 Sep 2001 19:22:10 -0500
From: Philip r schweitzer <prschweitzer@juno.com>
To: DDORN@CWIS.NET
Cc: qrp-l@Lehigh.EDU

Subject: [106244] Re: WIRE FOR BALUNS
Message-ID: <20010901.192212.-4148249.0.prschweitzer@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Sat, 01 Sep 2001 18:51:01 -0500 "DONALD G. DORN" <DDORN@CWIS.NET>
writes:

> Has anybody tried using zip cord for winding baluns? Just
> wondering.
>
> Don K5AAR
>

i used some small diameter solid speaker wire for the application. works
quite well in bifilar designs. Radio shack is a good source,,,, also
check it's throughput impedance with an antenna analyzer

p schweitzer\ka0pgq

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 2 Sep 2001 01:54:19 -0400
From: Ed Lawson <elawson@lawson-philpot.com>
To: w5xe@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [106245] Re: Where is the ZM-2 tuner kit?
Message-ID: <20010902015419.A696@work1>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

On Sat, 01 Sep 2001 16:34:36 William R Colbert wrote:
> It works as it is Karl.

And very well indeed. It is my tuner of choice for QRP work.

Ed Lawson
K1VP

Date: Sat, 1 Sep 2001 18:48:50 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: "James R. Duffey" <jamesd1@flash.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [106246] Re: Powdered Iron Cores!!!!
Message-ID: <Pine.LNX.4.33.0109011838430.2378-1000000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Here we go again...

On Sat, 1 Sep 2001, James R. Duffey wrote:

> Karl (Larsen, not Kanalz) - IN reply to your comments:
>
> "Hi Alan, the pictures on the web page sure show the toroid as being red
> which is an indication of a powdered iron device. I know for a fact that
> powdered iron cores make very poor baluns, that is, the balun doesn't
> display a balanced side. It should also be high loss."
>
> Well, let me make some comments about this and vent my frustration.
>
> 1. The toroid is not used as a balun core in the Z-Match Tuner. It is used
> to couple the two windings. You can find more details in an excellent
> article by Charlie "tuner" Lofgren in Antenna Compendium 5. I can't find my
> copy or I would quote the exact reference.
>
I don't have a copy and so can't see it either.

> 2. The efficiency of the Z-Match tuner is high,

>From what reference or test can you say this?

Compared to which other tuners?

especially compared to other
> tuners, some of which use air core inductors. Bob Kellogg, AE4IC, did a nice
> set of antenna tuner measurements several years back. A summary is posted
> at:
>
> <http://www.qsl.net/wd8rif/archives.htm#antennas>
>

Will look at that web page soon.

> The 6th article by Bob is particularly useful.
>

Will look at the 6th too.

> 3. Iron cores can be used successfully as baluns if the balun is properly
> designed and used within the design parameters. Unfortunately, the iron core
> balun is usually used in voltage (transformer) 4:1 balun which is not
> optimum for amateur use for a variety of reasons, none of which are german
> to this conversation.

This being the case explain why LDG and MFJ both ship out 4:1
baluns?

A 1:1 current (choke balun) is preferred See W7EL's
> article "Baluns: What they do and How They Do it" in Antenna Compendium 1.
>
> 4. The success of a current balun depends on supplying large inductance over
> a wide range of frequencies. It does not matter too much how one obtains
> this inductance. Air (very low permeability, certainly lower than iron
> cores) core baluns, such as discussed in the Handbook can be used
> effectively. These are not as broad band as some other balun types, but they
> are quite effective for tribanders, or 80/40 dipoles.
>
> 5. For a current balun, the loss of the core material does not matter. This
> is due to the fact that the core only sees the magnetic field induced by the
> common mode current that we are trying to eliminate. It doesn't matter if
> this is dissipated as heat, we are rid of it and that is that. Now for QRO
> use, the heat may cause failure in the balun, but at QRP levels, it will not
> matter. The core does not see the feedline current that we are trying to get
> to the antenna. The current is in opposite directions in the feedline and the
> induced magnetic field in the core is zero as a result. If we wind the balun
> with coax, the core is shielded from the transmission line currents by the
> coax.
>

I had a nice chat with an expert at the Fort Tuthill Hamfest. He
told me this: I was making a balun on coax by sliding beads over it. About
4 or 5 seems to work. I suggested we should use powdered iron since it's
so loss prone. The Expert said NO use ferrite. We don't want to lose any
power at QRP levels.

> Again, the problem is with the balun design, not the core material. The
> difficulties you have seen with iron core baluns is due to the use of a 4:1

> voltage balun design, not the iron core. In any case, the ZM-2 does not use
> the iron core as a balun. The ZM-2 is one of the most efficient tuners made
> for QRP use. You won't go wrong by obtaining one. - Dr. Megacycle KK6MC/5
>
>

And on what evidence do you make that assertion Dr. Megacycle? I
have not found a thing that says powdered iron cores work fine in the
ZM-2. Where is it.

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Sat, 1 Sep 2001 19:24:24 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-l@lehigh.edu>
Subject: [106247] Tuner Tests
Message-ID: <Pine.LNX.4.33.0109011912420.2700-100000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I read all the messages from 1997 on the web page indicated and it looks
as if the LDG auto tuner I have works great. It does, in the mobile. At
home the impedance gets out of range for it.

The ZM-2 gets good marks from that fellow for efficiency, much better than
I get with my old trusty MFJ 941C which he said has a 29% loss. This I
don't think is right. I measured 2 MFJ tuners attached together through
their balanced line outputs on 20 meters and using the same meter to
measure input and output to a good 50 ohm load, the loss through 2 MFJ
tuners was about 9 % loss. So I rounded it off to 5% per tuner. I can and
will run this test again. It's easy taking just an hour to do. It also
tests 2 4:1 baluns that are in the MFJ tuners. They use ferrite toroids.

I agree at a higher VSWR you might get a larger loss. I will think on a
way to get a high VSWR between the tuners...

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Sun, 2 Sep 2001 02:44:56 -0400
From: Ed Lawson <elawson@lawson-philpot.com>
To: qrp-l@lehigh.edu
Subject: [106248] Re: Powdered Iron Cores!!!!
Message-ID: <20010902024456.B696@work1>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

On Sat, 01 Sep 2001 20:48:50 Karl F. Larsen wrote:

>
> Here we go again...
>

Yes. It appears we are destined to dance around this maypole one more time.

Only my experience, but having worked Mongolia with a dipole and 1 watt using the old "bad" LDG balun along with just about every other place and having had great results with the ZM-2, I just find it hard to believe all this matters that much. Sort of like I just ignore I'm running 1 or 2 watts and just go for whatever I can hear. Most of the time I get a reply, and I keep quiet about being QRP for fear they won't be able to hear me then.

Ed Lawson
K1VP

Date: Sat, 01 Sep 2001 19:32:56 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: "Karl F. Larsen" <k5di@zianet.com>
Cc: qrp-l <qrp-l@lehigh.edu>
Subject: [106249] Re: Powdered Iron Cores!!!!
Message-ID: <B7B6E867.D34D%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Karl - In reply to your comments:

"From what referance or test can you say this?
Compared to which other tuners?"

1. The ZM-1 tuner (forerunner of the ZM-2) was compared to several other tuners. The results that Bob found, which are included in the reference I gave to you, are:

AVERAGE LOSS PERCENTAGE - The average signal loss of all of the SWR/Frequency combinations which would match to 1.1:1 or better.

Results:

MFJ-949E	29%	
ZM-1	22%	
St. Louis	43%	
Murch 2000A	22%	
LDG AT-11	14%	Note: Match was 1.5:1 or better, not 1.1:1.
Super Tee	39%	(Bal = 30%, UnBal = 49%)
MFJ-971	31%	

These are taken out of context and you should read the entire reference to get a good taste of the performance.

"This being the case explain why LDG and MFJ both ship out 4:1 baluns?"

2. Old myths die hard. The performance of both tuners would be better if the 4:1 baluns were replaced with 1:1 current baluns. Again I refer you to the fine article by W7EL in Antenna Compendium 1, which has quantitative information that the current balun outperforms the voltage balun. Read it and then ask yourself "why do LDG and MFJ both ship out voltage baluns?"

"I had a nice chat with an expert at the Fort Tuthill Hamfest. He told me this: I was making a balun on coax by sliding beads over it. About 4 or 5 seems to work. I suggested we should use powdered iron since it's so loss prone. The Expert said NO use ferrite. We don't want to lose any power at QRP levels."

Who was the expert? You will need more than 4 or 5 beads to make an effective balun. 18 inches or more of beads are required. With bead baluns ferrite is almost required as the permeability must be high. Ferrite has high permeability. High permeability is required as the inductance is only provided by one turn around the core in a bead balun. With multiple turns, as with a toroid or rod, the inductance goes as n^2 so a much lower permeability core can be used to obtain the same inductance. These lower permeability cores usually have lower losses. Again, you won't lose any power as the cores only act on the unwanted common mode currents.

"And on what evidence do you make that assertion Dr. Megacycle? I have not found a thing that says powdered iron cores work fine in the ZM-2. Where is it."

3. I refer you to:

<http://www.qsl.net/wd8rif/archives.htm#antennas>

Bob's measurements are quite good, and show that the ZM tuners from EmTech are quite efficient, iron core or not. - Dr. MEgacycle KK6MC/5

--

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sat, 1 Sep 2001 21:43:01 EDT
From: Kr01a@aol.com
To: qrp-l@lehigh.edu
Subject: [106250] For Sale: Complete QRP Station
Message-ID: <141.dc1161.28c2e8a5@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

1. OHR 400 - 20,30,40,80 meter cw transceiver w/optional built-in keyer
2. OHR DD-1 digital display
3. OHR WM-2 QRP wattmeter
4. LDG QRP autotuner (factory built)

Includes all manuals. No trades. \$350 plus shipping/insurance
Payment by money order or certified check. Reply direct to
kr01a@aol.com (that is a "one" after the zero)

72, Mac, KR0I
QRP ARCI 3227
Kansas City, MO

Date: Sat, 01 Sep 2001 22:01:05 EDT
From: n5ib@juno.com
To: qrp-l@Lehigh.edu
Subject: [106251] PSK-31
Message-ID: <20010901.205308.4647.2.n5ib@juno.com>

Hi Wayne,

Heard your CQ around 8:50 pm and answered. Guess my poor antenna (40 m loop) is a liability. I'm copying yur QSO with james right now. Getting about 80% of you and about 60% of James.

72

Jim N5IB

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<http://dl.www.juno.com/get/tagj>.

Date: Sat, 1 Sep 2001 23:09:11 -0400 (EDT)

From: <baltimoremd@baltimoremd.com>

To: Ed Lawson <elawson@lawson-philpot.com>

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [106252] Re: Powdered Iron Cores!!!!

Message-ID: <Pine.BSI.4.05L.10109012308250.929-100000@vh1.min.net>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 2 Sep 2001, Ed Lawson wrote:

> Sort of like I just ignore I'm
> running 1 or 2 watts and just go for whatever I can hear. Most of the
> time I get a reply, and I keep quiet about being QRP for fear they won't
> be able to hear me then.

I love it!

baltimoremd@baltimoremd.com

<http://www.baltimoremd.com/>

<http://www.baltimorehon.com/>

<http://www.zerobeat.net>

Thom LaCosta K3HRN Webmaster

Baltimore's Home Page

Home of the Baltimore Lexicon

Home of The QRP Web Ring

and Drake Mail List Pages

Date: Sat, 1 Sep 2001 20:53:29 -0700 (PDT)

From: Steve Yates <aa5tb@yahoo.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [106253] Re: Random Wire Antenna Corrosion [LONG]

Message-ID: <20010902035329.24647.qmail@web14610.mail.yahoo.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Even though diode action may indeed occur within the corroded strands of exposed stranded copper antenna wire keep in mind that the relative phase of each strand will be the same throughout the length of the wire (one strand to another) in the case of a transmitting HF antenna. There should be no potential difference from one strand to another and therefore I would predict that no IMD products would develop. Passive Intermodulation products can indeed become a problem in high RF density areas, such as popular repeater sites and satellites. Even rusty nut and bolt connections in a building top or poor bonds in passive reflector on a satellite can create IMD problems to sensitive receivers.

Exposed bare copper wire has been used successfully for a century in radio work with no ill effects so I'd be inclined not to start worrying about it too much now ;-). At UHF or above where the skin effect depth is much less this will start becoming more noticeable. As for the original application in HF random wire antennas and the concern for corrosion induced losses, the increased loss due to oxidation should go un-noticed unless maybe the random wire was very short in terms of wavelength (very low radiation resistance). I use bare copper tubing for my small magnetic loop antennas and since their radiation resistance values are measured in the milliohms I have often been concerned about the effects of the tubing turning green due to corrosion. I must say that I have not noticed any degradation of the overall Q of the antenna so the effect has been negligible so far. If I had used thin wire maybe I would have noticed. I do prefer to use insulated wire in most of my antennas though simply because when I decide to come up with some other configuration it is much easier to solder to the nice, shiny wire that is under the insulation rather than mess with trying to clean up a corroded piece of wire.

=====

Steve Yates

Call: AA5TB

E-Mail: aa5tb@arrl.net

Location: Fort Worth, TX - Grid EM12gs

Web Page: <http://www.geocities.com/aa5tb>

Do You Yahoo!?

Get email alerts & NEW webcam video instant messaging with Yahoo! Messenger
<http://im.yahoo.com>

Date: Sat, 1 Sep 2001 23:28:34 -0400
From: Donald E Sanders <w4bws@juno.com>
To: pcummins@misnet.com
Cc: qrp-1@Lehigh.EDU
Subject: [106254] Re: Math Theory Help
Message-ID: <20010901.234547.-129259.0.w4bws@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

I will echo the same comments. I used this book as a student and teacher at Valparaiso Tech from 1958 to 1962. It gives a good basic understanding of math with references to electronics that should make it interesting to hams. Regular texts can get lost in theory and be BORING if you are not interested in math for math sake. I may have had a minor in math and physics, BSEE grad, but I never enjoyed the dryness of a lot of the math. And back in those days we didn't have the calculators that are so inexpensive today. Heck I still grab my slide

rule some times for a quick calculation. Wish the ARRL still had their slide rule, it was great. Lost mine in a move years ago.

Don W4BWS

On Sat, 1 Sep 2001 11:57:39 -0500 "Patrick Cummins" <pcummins@misnet.com> writes:

> Brad:

> I have been following this thread with some interest, and I do
> understand where you are coming from. I have noticed however that
> no one
> mentioned one of (In My Opinion) the best books ever written or
> published
> concerning basic electronics, that venerable tome known colloquially
> as
> "Cooke's Math".
> ("Mathematics for Electricians and Radiomen" by LCDR Nelson M.
> Cooke, USN,
> McGraw Hill 1942)
> The newer title for this is:
> "Basic Mathematics for Electronics" by N.M. Cooke and H.F.R.
> Adams
>

. You can also get used books on
> the
> internet from Powells and I think Barnes & Noble have used book
> available on
> their web site (but not in the stores). Any way it's a good one to
> check out.
>

> Patrick S. Cummins W5PSC
> pcummins@misnet.com
>
>

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 2 Sep 2001 00:54:42 -0400
From: Joel M Denison <hamjoel@juno.com>
To: fpqrp-1@mpna.com, qrp-1@lehigh.EDU
Subject: [106255] aNT hALP....
Message-ID: <20010902.011407.-16579525.1.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ah needs, oh ah needs...

for 20 meters

3 element lengths 66ft. center fed (33ft each side of center)

spacing 9ft between elements (3 elements)

feed with 300 ohm twin lead ... equal lengths from the center element
.... turned 180° from center to rear and center to front element

will feed the center element with 300 ohm twinlead back to
radio...

this will put the two end elements 180° outta phase with the middle
element...

need to kneaux the gain of such a thing...

Center frequency is approx 14.175 mhz
spacing is approx 1/8 wave for twenty...

any takers to put it on the computer...

ke1la joel
in maine

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 2 Sep 2001 01:18:33 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [106256] Evaluate your antenna tuner
Message-ID: <c.1a6f9b51.28c31b29@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

There were two articles written (Parts 1 and 2) in the April and May 1995 QST regarding how to evaluate your antenna tuner including some simple tests.

For ARRL members you can go to
<http://www.arrl.org/tis/info/tuner.html>
to read and down load them.....

Alan KB7MBI in Woodinville, WA

Date: Sun, 2 Sep 2001 02:14:18 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [106257] Coffee controversy brewing
Message-ID: <158.4dc741.28c3283a@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

My note about the pound of coffee to be randomly awarded thru a drawing from QRP AFIELD contacts has created concern over unfairly influencing potential contacts. Let me note that regardless of raised concerns, I WILL still BE DOING THE DRAWING FOR THE COFFEE.

- (1) This is a hobby
- (2) This contest is for fun
- (3) This is my way of adding a little to contest. You can still be a winner and not make a gazillion contacts (smile)
- (4) I generally don't submit logs anyways

The coffee thing is in. If you don't agree with it don't respond to my call during the contest. And some lucky dude (or dudette) will be getting a pound of pure heaven when this contest is all over with.

There should be no further GROUNDS for concern (grin)--nuff said on topic.
Looking forward to your contact! Hey this is suppose to be fun!

Date: Sun, 2 Sep 2001 02:20:19 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [106258] Re: Coffee controversy brewing
Message-ID: <34.1a45fe39.28c329a3@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

That note was from me!

Alan KB7MBI in Woodinville, WA

Date: Sun, 2 Sep 2001 03:09:31 -0400
From: "Larry Spinner" <n2icz@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [106259] Re: Z11 Auto Tuner-MINT!
Message-ID: <0E371waCukkktsUNTaUN00002466@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The Z11 is sold... Thanks.

----- Original Message -----

From: "Larry Spinner" <n2icz@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Saturday, September 01, 2001 7:36 PM
Subject: FS: Z11 Auto Tuner-MINT!

> Hi Gang,
>
> I have for sale an LDG Electronics Z11 Automatic Antenna Tuner. It is a
> factory assembled model and only a few months old. It's in mint
condition.
>
> Price: \$150 postage paid CONUS! PayPal preferred. MO is fine.
>

> I'm offering it here first before the eBay crowd.
>
> Thanks.
>
> Larry-N2ICZ
>

Date: Sun, 02 Sep 2001 01:16:07 -0700
From: "N7SG K7FD" <k7fd@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [106260] Late Night Radio - thrown for a Loop!
Message-ID: <F153RCmAk121fBuLYuy00003b35@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

It's 1AM in the AM, and I just had a ve-ry in-te-rest-ing qso with Steve AA5TB. First of all, it's interesting because I've been on 30m here since 9pm and haven't heard boo. Secondly, I called CQ at 12:50am on an extremely vacant 10MHz band - only to get an answer from Steve...qrp on his SMALL loop...only a foot off the ground! We exchanged 559's, a couple of yawns, and said goodnight (he was up attending to a sick dog, & who knows why I'm up)...

If you haven't taken a look at AA5TB's Small Loop, it's worth the trip:
<http://www.geocities.com/aa5tb/loop.html>

So another really great qso with the SST/Thirty. After ten days, I've got a fourth of the US in my log - and Germany by some weird fluke of ionispheric magic.

Also completed my first official sked on 30m, going coast to coast with George W3ANX (Congrats on that recent A-1 Op, George!) ...so it's been a fun time since completing the SST. In fact, I think of all the SST's I could have had for this IC-775DSP dust collector sitting here... :(

73 John K7FD

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Sun, 02 Sep 2001 05:29:27 -0500
From: "Chuck Carpenter" <w5usj@globeco.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [106261] Re: Evaluate your antenna tuner
Message-ID: <3.0.2.32.20010902052927.006cad10@mail.globeco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Alan es Folks,

A similar procedure is in Antenna Compendium #5 from the same author. This one describes how to measure the efficiency of baluns and ununs and such.

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
ARCI #5422, QRP-L #1306, SOC #57, Six Club #201, SMIRK #6275
Zombie #749, RARA #3, NETXQRP Web Site <http://www.netxqrp.org>

Date: Sun, 02 Sep 2001 07:39:54 -0400
From: Ken Newman <N2CQ@citnet.com>
To: epaqrp-l@lehigh.edu, QRP-L@lehigh.edu, njqrp@njqrp.org,
n9avg@amsat.org, al7fs@qsl.net, carldeaver@iwaynet.net,
Subject: [106262] Internet Address Change
Message-ID: <3.0.6.32.20010902073954.0093d100@mail.citnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi All,

If you have N2CQ@Citnet.com on your Address Book, please change it to
N2CQ@ARRL.NET

The Citnet.com address will not work after the end of this month. Thanks!

72 de
Ken Newman - N2CQ == QRP CONTEST CALENDAR ==
Woodbury, NJ <http://www.njqrp.org/data/contesting.html>
FM29jt
N2CQ@ARRL.NET

Date: Sun, 2 Sep 2001 06:54:40 -0500

From: Mark R Milburn <mark.milburn@juno.com>
To: qrp-1@lehigh.edu
Subject: [106263] QRP ARCI members
Message-ID: <20010902.065442.-324833.0.MARK.MILBURN@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=windows-1252
Content-Transfer-Encoding: 7bit

In just a couple of weeks the mailing list for the October QRP Quarterly magazine will be sent to the printer/mailer folks. This is the time for QRP ARCI members to review their membership information. If you have moved, the post office has changed your address, or you just want the magazine delivered a different place, now is the time to tell us. If your email address has changed, please let us know so we can keep in touch. If you have any doubt about when your subscription runs out, check the web page at <http://www.qrparci.org> and look under "member lookup" to see if you need to get that renewal check in right away so you won't miss any issues. If you just want to ask a question about your membership or your magazine subscription, send me an email.

72 Mark KQ0I
Secretary-Treasurer QRP ARCI
#2667

Date: Sun, 02 Sep 2001 08:27:56 -0400 (EDT)
From: "John L. Sielke" <w2agn@pobox.com>
To: ARDUJENSKI@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [106264] RE: Coffee controversy brewing
Message-ID: <XFMail.20010902082756.w2agn@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

You made a big mistake! You assumed everyone thought this was supposed to be fun! Back in 1996 or so, this would have applied. The list is now going through menopause, or PMS or whatever, and NOTHING is considered fun anymore.

I will be looking for you, anyway...but only if it's Dark Roast....!

John W2AGN

On 02-Sep-2001 ARDUJENSKI@aol.com wrote:
> My note about the pound of coffee to be randomly awarded thru a drawing from
> QRP AFIELD contacts has created concern over unfairly influencing potential

> contacts. Let me note that regardless of raised concerns, I WILL still BE
> DOING THE DRAWING FOR THE COFFEE.

Date: Sun, 2 Sep 2001 09:36:04 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [106265] OT: digital camera for ham pictures
Message-ID: <49.10576dab.28c38fc4@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I would like to get a digital camera for taking pictures of ham projects and events to be able to forward on to inquisitive souls. Sometimes a picture is worth a thousand words. I want a good quality camera in \$500 range (or less). Any recommendations?

Alan KB7MBI in Woodinville, WA

(they will be tiny pictures so this qualifies as QRP--grin)

Date: Sun, 2 Sep 2001 09:49:27 -0400
From: "ss lyon" <sslyon@megalink.net>
To: <ARDUJENSKI@aol.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [106266] Re: digital camera for ham pictures
Message-ID: <004201c133b6\$152fc080\$5d8798ce@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I picked up a Kodak DC3200 around xmas for \$179 at Best Buy and really think it great for the bux. Added a Lexar 48mb disk & reader for \$150 and now can take almost 200 hi res shots at a clip. They're even cheaper now, and others may be comparable, but this is one slick package. It is NOT suitable for macro work as it is, but you can push on diopter lenses for that and adjust for parallax.

73

-s-

Seabury & Sharon Lyon
99 Sparrowhawk Mtn Rd
Bethel, Me, 04217 U.S.A.
207-836-2576

----- Original Message -----

From: <ARDUJENSKI@aol.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Sunday, September 02, 2001 9:36 AM

Subject: OT: digital camera for ham pictures

> I would like to get a digital camera for taking pictures of ham projects
> and
> events to be able to forward on to inquisitive souls. Sometimes a picture
> is
> worth a thousand words. I want a good quality camera in \$500 range (or
> less).
> Any recommendations?
>
> Alan KB7MBI in Woodinville, WA
>
> (they will be tiny pictures so this qualifies as QRP--grin)

Date: Sun, 02 Sep 2001 09:52:37 -0400

From: adamvaz@palm.net (Adam Vazquez)

To: ARDUJENSKI@aol.com, qrp-1@Lehigh.EDU

Subject: [106267] Re: OT: digital camera for ham pictures

Message-ID: <GJ1FVP00.SCU@mo130uhou.palm.net>

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hello de Adam

My personal favorite (I have two) is the I/O Magic MagicPhoto 500
available from CompUSA and MicroCenter (\$80) 1024x960 thru a 800k CCD.
It uses SmartMedia, outputs in JPEG and runs on two AA batteries. It is
TWAIN (comport) and includes photo software.

The Pencam (\$90) is also available and triples as a webcam, still or
movie camera but no removable memory. It is however low resolution.
Check your closest independent shop.

Good Shopping.

ARDUJENSKI@aol.com wrote on 9/2/01 9:36 am:

> I would like to get a digital
> camera for taking pictures
> of ham projects and
> events to be able to forward

>on to inquisitive souls.
>Sometimes a picture is
>worth a thousand words. I
>want a good quality camera
>in \$500 range (or less).
>Any recommendations?
>
>Alan KB7MBI in Woodinville,
>WA
>
>(they will be tiny pictures so
>this qualifies as QRP--grin)

Date: Sun, 2 Sep 2001 09:26:21 -0500
From: Nick Kennedy <nkennedy@tcainternet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [106268] RE: Coffee controversy brewing
Message-ID: <01C13391.54A8AEE0.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Well I guess I didn't get the message, John. I'm still having fun.

And I intend to have that coffee!

Now, when are our friends across the sea going to offer a few pints of Newcastle Brown Ale as an inticement?

72--Nick, WA5BDU
fun loving in Arkansas

-----Original Message-----

From: John L. Sielke [SMTP:w2agn@pobox.com]
You made a big mistake! You assumed everyone thought this was supposed to be fun!

John W2AGN

Date: Sun, 02 Sep 2001 10:26:46 -0400
From: Dave Fouchey <dafouchey@home.com>
To: nkennedy@tcainternet.com,

"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [106269] RE: Coffee controversy brewing
Message-ID: <4.1.20010902102547.0099dd50@localhost>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:26 AM 9/2/2001 -0500, Nick Kennedy wrote:

>Well I guess I didn't get the message, John. I'm still having fun.
>
>And I intend to have that coffee!
>
>Now, when are our friends across the sea going to offer a few pints of
>Newcastle Brown Ale as an inticement?
>
>72--Nick, WA5BDU
>fun loving in Arkansas

Well now let's make it Guinness and I will be more than happy to take it
off their hands!

72 Dave WA4EMR/8
Chillin in Michigan

>
>-----Original Message-----
>From: John L. Sielke [SMTP:w2agn@pobox.com]
>You made a big mistake! You assumed everyone thought this was supposed to be
>fun!
>
>John W2AGN
>

Date: Sun, 2 Sep 2001 10:28:20 -0400
From: "ZOOM" <kandrparker@sympatico.ca>
To: <ARDUJENSKI@aol.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [106270] Re: digital camera for ham pictures
Message-ID: <004a01c133bb\$842b0f80\$3294fea9@RobertParker>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Entry level SONY is an excellent choice. 600X480 resolution but when on the

net you really don't want any more than that due to download times.
All pics are loaded on a regular 3.5" disk. No flash cards to buy and
loading the pics is as easy as putting the disk in your cpmputer. No
software required!

I really like mine and the pics are always clear and of great quality.

Cheers,
Robert
VE3RPF

----- Original Message -----

From: <ARDUJENSKI@aol.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Sunday, September 02, 2001 9:36 AM

Subject: OT: digital camera for ham pictures

> I would like to get a digital camera for taking pictures of ham projects
> and
> events to be able to forward on to inquisitive souls. Sometimes a picture
> is
> worth a thousand words. I want a good quality camera in \$500 range (or
> less).
> Any recommendations?
>
> Alan KB7MBI in Woodinville, WA
>
> (they will be tiny pictures so this qualifies as QRP--grin)
>

Date: Sun, 2 Sep 2001 10:30:24 -0400
From: "Richard Brummer, K2JQ" <k2jq@bestweb.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [106271] Re: digital camera for ham pictures
Message-ID: <00b901c133bb\$cea4eae0\$d205b3d8@obvious>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'm also looking at digital cameras now, and I was impressed by a friend's
Nikon Coolpix 950 (discontinued, but still available). The newer model 995
is commonly available for around \$900. More than your stated price, but you
would probably be happy with the quality of the Nikon line. It's also got a
38-152 mm zoom lens on it. The less expensive Coolpix 775, available for
around \$450, has a 38-115 zoom lens.

One of my bookmarked websites is www.camera-world.com I find this useful in checking out what equipment is currently available. Take a look.

Standard disclaimer, etc. with regard to Nikon and Camera World. Just impressed with Nikon quality over the years.

73,

Dick K2JQ

-----Original Message-----

From: ARDUJENSKI@aol.com <ARDUJENSKI@aol.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Date: Sunday, September 02, 2001 9:36 AM

Subject: OT: digital camera for ham pictures

>I would like to get a digital camera for taking pictures of ham projects and

>events to be able to forward on to inquisitive souls. Sometimes a picture is

>worth a thousand words. I want a good quality camera in \$500 range (or less).

>Any recommendations?

>

>Alan KB7MBI in Woodinville, WA

>

>(they will be tiny pictures so this qualifies as QRP--grin)

>

Date: Sun, 2 Sep 2001 07:29:08 -0700

From: "Bud Haynes" <KV7G@prodigy.net>

To: <ARDUJENSKI@aol.com>,

"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [106272] Re: digital camera for ham pictures

Message-ID: <001801c133bb\$a2e06380\$0100a8c0@buds>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Alan

My advise is to not buy anything that you can not return if you are not satisfied. I have tried many and my personal favorite is the Sony Mavica. The 2 features that I like best are the Lithium battery that will take up to

500 shots without a recharge and it has a built in 3 1/2 inch floppy drive so it writes to disk, you need no computer connections.
Wal-Mart had the Pen Cam on sale about 3 weeks ago for \$49.95, I bought one and tried it. It was all but useless, under ideal conditions I did get it to take one useable photo. It was returned.
ALL of the digital cameras that I tried other than the Mavica EAT BATTERIES alive.
Lots of luck with your choice.

Bud - KV7G - Yuma, AZ

Mailto: KV7G@prodigy.net
Web Page: www.qsl.net/kv7g

> I would like to get a digital camera for taking pictures of ham projects >
> Any recommendations?
>
> Alan KB7MBI in Woodinville, WA
>
> (they will be tiny pictures so this qualifies as QRP--grin)
>

Date: Sun, 02 Sep 2001 08:43:41 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: <qrp-l@lehigh.edu>, <k5di@zianet.com>
Subject: [106273] Re: Tuner Tests
Message-ID: <B7B7A1BC.D378%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Karl - Recall that the efficiency numbers that I quoted from AE4IC are a composite of all the matching conditions that Bob measured. About half the configurations will be better, and about half will be worse. Running the MFJ tuner's 4:1 voltage balun at its design point, 50 Ohms resistive in and 200 Ohms resistive out, should result in good, if not the best case efficiency.

As both you and Bob point out, the LDG auto tuners are efficient. I believe that they use powdered iron cores for the inductors. - Dr. Megacycle KK6MC/5
--

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sun, 2 Sep 2001 07:46:16 -0700 (PDT)
From: Steve Yates <aa5tb@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [106274] Re: Late Night Radio - thrown for a Loop!
Message-ID: <20010902144616.55647.qmail@web14604.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Thanks John. I enjoyed the QSO very much.

I had set the loop up yesterday in the backyard just to play with. It may be interesting to note that I was using 100' of RG-58 coax to feed it (measured 1.3 dB of loss) and the null of the loop was orientated N-NW / S-SE. In other words, I could have been even stronger if you weren't near the null! The loop is the latest one shown on my Web page. It is 3' in diameter and made from 5/8" copper tubing. As I look out the window this morning I noticed that the bottom of the loop is more like 8" off of the ground instead of 1'.

Isn't 30m great! You just never know what you might find. It was nearly 3 AM in the morning here when I turned on the rig and heard you calling CQ.

=====

Steve Yates

Call: AA5TB
E-Mail: aa5tb@arrl.net
Location: Fort Worth, TX - Grid EM12gs
Web Page: <http://www.geocities.com/aa5tb>

Do You Yahoo!?
Get email alerts & NEW webcam video instant messaging with Yahoo! Messenger
<http://im.yahoo.com>

Date: Sun, 02 Sep 2001 10:55:03 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: ARDUJENSKI@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [106275] Re: OT: digital camera for ham pictures
Message-ID: <3B924847.DC3478B4@erols.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Alan,

I recently bought a Kodak DCS4800 to play with. I can say it is nice, but it is not really comfortable for me. I would prefer a SLR style camera but that is \$1600 vs the \$500 for the 4800!

I find the dual zoom action very nice. It will do 3:1 optically and an additional 2 X digitally. There is an extensive set of resolutions available from 1 to 3.3 mega pixels. It is very small and easy to use. It uses compact flash cards.

I was also favorable impressed by the Sony Mavica series but the 3.5 inch disks and the lower resolution put me off a lot. I have worked as a professional photographer where image resolution is almost everything! To give away so much just rubs me the wrong way!

My camera of choice would be the DCS30 by Canon. It will take all my EOS lenses and is a SLR. Next year!

73

Date: Sun, 2 Sep 2001 09:58:16 -0500
From: "Brian Murrey" <brian@iquest.net>
To: <ARDUJENSKI@aol.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [106276] Re: Coffee controversy brewing
Message-ID: <002601c133bf\$b3b2e3a0\$aa532bd1@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Alan,

Try as you might, this earth shattering controversy may never ever end unless you agree to send a one pound bag/can/container of this coffee to every single ham you hear and don't hear on the air during the date in question. I think it is honestly, the only fair thing you can do. Don't just reward the achievers, but reward us all...for at least trying to meet your outlandish demands. It doesn't matter whether we win or not, it's not even how we play the game, it's how we FEEL about things in general and as long as our delicate psyche remains intact, all is well with the world.

<snicker>

73

----- Original Message -----

From: <ARDUJENSKI@aol.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Sunday, September 02, 2001 1:14 AM

Subject: Coffee controversy brewing

> My note about the pound of coffee to be randomly awarded thru a drawing
from
> QRP AFIELD contacts has created concern over unfairly influencing
potential
> contacts. Let me note that regardless of raised concerns, I WILL still BE
> DOING THE DRAWING FOR THE COFFEE.
> (1) This is a hobby
> (2) This contest is for fun
> (3) This is my way of adding a little to contest. You can still be a
winner
> and not make a gazillion contacts (smile)
> (4) I generally don't submit logs anyways
>
> The coffee thing is in. If you don't agree with it don't respond to my
call
> during the contest. And some lucky dude (or dudette) will be getting a
pound
> of pure heaven when this contest is all over with.
>
> There should be no further GROUNDS for concern (grin)--nuff said on topic.
> Looking forward to your contact! Hey this is suppose to be fun!
>

Date: Sun, 02 Sep 2001 11:01:04 -0400

From: adamvaz@palm.net (Adam Vazquez)

To: qrp-1@Lehigh.EDU, ARDUJENSKI@aol.com, fcuadrado@aol.com

Subject: [106277] Re: errata-OT: digital camera for ham pictures

Message-ID: <GJ1J1S00.QEJ@mo110uhou.palm.net>

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

-- Forwarded Message --

Hello de Adam

My personal favorite (I have two) is the I/O Magic (sorry, not the MagicPhoto) **MagicImage 500** available from CompUSA and MicroCenter (\$80) 1024x960 thru a 800k CCD. It uses SmartMedia, outputs in JPEG and runs on two AA batteries. It is TWAIN (comport) and includes photo software.

The Pencam (\$90) is also available and triples as a webcam, still or movie camera but no removable memory. It is however low resolution. Check your closest independent shop.

Good Shopping.

ARDUJENSKI@aol.com wrote on 9/2/01 9:36 am:

>I would like to get a digital
>camera for taking pictures
>of ham projects and
>events to be able to forward
>on to inquisitive souls.
>Sometimes a picture is
>worth a thousand words. I
>want a good quality camera
>in \$500 range (or less).
>Any recommendations?
>
>Alan KB7MBI in Woodinville,
>WA
>
>(they will be tiny pictures so
>this qualifies as QRP--grin)

Date: Sun, 2 Sep 2001 10:02:31 -0500
From: "Brian Murrey" <brian@iquest.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [106278] Re: Coffee controversy brewing
Message-ID: <004701c133c0\$4ad9a700\$aa532bd1@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dave....I agree 100%

It's the only brew FIT to drink.

My homemade stout ale is close, and it's far chewier, but a pint of G hits the spot like nothing else.

----- Original Message -----

From: "Dave Fouchey" <dafouchey@home.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Sunday, September 02, 2001 9:26 AM

Subject: RE: Coffee controversy brewing

> At 09:26 AM 9/2/2001 -0500, Nick Kennedy wrote:

> >Well I guess I didn't get the message, John. I'm still having fun.

> >

> >And I intend to have that coffee!

> >

> >Now, when are our friends across the sea going to offer a few pints of

> >Newcastle Brown Ale as an inticement?

> >

> >72--Nick, WA5BDU

> >fun loving in Arkansas

>

> Well now let's make it Guinness and I will be more than happy to take it

> off their hands!

>

> 72 Dave WA4EMR/8

> Chillin in Michigan

>

> >

> >-----Original Message-----

> >From: John L. Sielke [SMTP:w2agn@pobox.com]

> >You made a big mistake! You assumed everyone thought this was supposed to be

> >fun!

> >

> >John W2AGN

> >

>

>

>

Date: Sun, 2 Sep 2001 11:05:29 -0400 (EDT)

From: Stephan Greene <sgreene@patriot.net>
To: "Richard Brummer, K2JQ" <k2jq@bestweb.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [106279] Re: digital camera for ham pictures
Message-ID: <Pine.LNX.4.10.10109021058060.11268-100000@tzion.greene.lan>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 2 Sep 2001, Richard Brummer, K2JQ wrote:

> I'm also looking at digital cameras now, and I was impressed by a friend's
> Nikon Coolpix 950 (discontinued, but still available). The newer model 995
> is commonly available for around \$900. More than your stated price, but you
> would probably be happy with the quality of the Nikon line. It's also got a
> 38-152 mm zoom lens on it. The less expensive Coolpix 775, available for
> around \$450, has a 38-115 zoom lens.

I've had a 950 for a bit over a year. It is a great camera, but overkill
IMHO for casual shots for the web. The Nikon's overall quality and
construction is excellent, with TWO caveats:

- the flash stinks. Too close to the lens for decent red-eye reduction,
and too weak to do decent indoor photography from greater than about 10'
away from the subject. An external flash solves this problem, at the cost
of greater bulk and complexity.

- the lcd display easily washes out in daylight. I knew this beforehand -
several on-line reviews mention it and my brother warned me (professional
photographer who owns a 950).

With the lcd display on, power consumption can be high, even using NiMH
batteries (not a "qrp" camera). I *do* like it, and have been using it a
lot (see <http://www.00ff00e.com> for examples)

I'd be concerned about taking ANY of the digital cameras on a trip into
the woods - too easily damaged, too expensive to replace/repair, and you
are more likely to be carrying it where it can be dropped or dinged than
the radio in the padded expedition pack. Disposable 35mm cameras are
cheap, water-resistant, and getting pictures digitized is easy.

72, Steve KA1LM

Stephan A. Greene	sgreene@patriot.net	ka1lm@amsat.org
Herndon, VA	1-703-421-7101 office	1-703-980-3475 cell

Date: Sun, 02 Sep 2001 11:40:01 -0400 (EDT)
From: "John L. Sielke" <w2agn@pobox.com>
To: Brian Murrey <brian@iquest.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [106280] Re: Coffee controversy brewing
Message-ID: <XFMail.20010902114001.w2agn@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

Amen!

Acvtually, I am a non-drinker, but my doctor told me to drink a brew a day (no kidding!). I don't like regular beer, but I do like Guinness!

John W2AGN

On 02-Sep-2001 Brian Murrey wrote:

> Dave....I agree 100%

>

> It's the only brew FIT to drink.

>

> My homemade stout ale is close, and it's far chewier, but a pint of G hits
> the spot like nothing else.

>

Date: Sun, 2 Sep 2001 11:40:17 EDT
From: IamSF5@aol.com
To: qrp-L@lehigh.edu
Subject: [106281] L@@King for QRP
Message-ID: <13f.c5f08a.28c3ace1@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Gang,

I'm looking for a NC-20 and or an SST for 20-M

A friend is looking to but a Red hot -40 or NC 40-A.

Thanks and everyone have a nice holiday

Bob

WA2HOQrp <tm>

Date: Sun, 2 Sep 2001 10:47:12 -0500
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "'jfurman@ocs.net'" <jfurman@ocs.net>,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [106282] RE: Math Theory Help-- boring vocabulary
Message-ID: <01C1339C.A2FA1E20.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

That's good stuff, Jeff. I'd thought Siemens was just the unit for reactive conductance, but I now see it covers both reactive and resistive (or is it conductive). Replaced Mho. (But not Larry & Curly.)

As you've illustrated, looking at the same value of impedance/admittance in different ways can start to reveal some things about how matching and resistance transformations work.

For example, looking at two terminals of a black box (probably an antenna is in there), you make an impedance measurement and get $25 - 35j$ ohms. That means what's in the box could be considered to be a 25 ohm resistor and -35 ohm capacitor in series. So you say, "I'm gonna get rid of that reactive component because I just want the resistive part." By inspection, you realize that you just have to add an inductor of 35 ohms reactance in series and it cancels or series resonates the capacitive reactance and you're done. Now you've got a load of 25 ohms at your input terminals.

But you could also say hey, this circuit in the black box could just as easily be described as a resistor and reactive component in parallel. I want to cancel the reactance by putting the opposite reactance in parallel with them. OK, we can do that. Take the reciprocal of the impedance ($1/(25 - 35j)$) and you get admittance equals $0.0135 + 0.0189i$ Siemens. That form represents two conductance elements in parallel. Convert them back to resistive and reactive values by taking the reciprocal of each. The parallel form of the circuit in the black box is now $74 - 52.9j$. Now you can cancel the reactive part by placing an inductance of reactance $+52.9j$ across the terminals. This time you are left with 74 ohms.

So you've converted the impedance to a pure resistance, once by adding a series inductance and once by adding a parallel inductance. And the result was two different values of resistance: 25 ohms in one case and 74 in another. This stuff can in fact be boring--but I'm sure that I'm not alone in thinking that it's pretty fascinating to see resistance values transformed with just reactive components, no "real" transformers involved.

This series Vs parallel method is interesting and sometimes useful, but it's far from completely general. What if we wanted not 25 and not 74 ohms, but everyone's favorite, 50? That's when we'll start to examine the

amazing things that can be done with just one or two capacitors and an inductor. You can plug in numbers from the handbook and make these things work. But when you've absorbed some of the complex math techniques we've been discussing, you can begin to see the beauty of HOW they work.

I can tell from all the snoring and squirming that I've said more than enough ...

72--Nick, WA5BDU

-----Original Message-----

From: Jeff Furman [SMTP:jfurman@ocs.net]

As an aside, a Smith chart may be used to invert complex numbers (admittance <-> impedance). Examine the chart, notice reactance scales are positive and negative, but the resistance scale is only positive (inside the outer circle.)

I can tell from the spitwads and pencils in the ceiling, this is more than enough.

73, Jeff AD6MX

--

Date: Sun, 2 Sep 2001 18:33:36 +0200
From: "Hans Sundstrom" <hans.sundstrom@telia.com>
To: <ARDUJENSKI@aol.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [106283] SV: digital camera for ham pictures
Message-ID: <004601c133cd\$04060460\$9b8541d5@telia.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

I can recommend the Nikon line. The new Coolpix 995 (I am using that = one myself, as one of my cameras, for professional use) is a very nice = camera with 3,21 megapixels. A little bit more money than you advice, = but WELL worth the money. You also have the Coolpix 885, little less = money, but with the same CCD.

Those are cameras to grow into, that you will enjoy the result of. I = strongly advice you NOT to buy any of the floppy disk cameras, if you = want to get pictures that you can make anything from but view on the = computer screen. A jpeg picture with enough resolution to make a decent =

prinout is at least 1 Mb, and you need a flasch card to load with any =
reasonable amount of pictures. I recommend a flash card not less than 64 =
Mb.

I also strongly advice you to go for a quality camera from one of the =
well known camera makers if you decide not to go for Nikon. Not to get =
any of the "Super Acme bargain prices". There is no such thing as free =
lunch...

Another thing: when you look at the zoom capabilities, only look at the =
optical zoom, the digital zoom does not do you any good since it does =
not really give you any better resolution, it just cuts the picture.

With the Nikon cameras you can also get additional toys like telephoto =
and wide angle lenses that makes your camera do even more. I often have =
the wide angle extra attached to my 995.

Of course you can go for something cheaper, enjoy it to start with, but =
you are guaranteed to regret yourself later...

Good luck an enjoy yourself.

73

Hans / SM4ATJ / 7S4A / SM4A

----- Original Message -----=20

From: <ARDUJENSKI@aol.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Sent: Sunday, September 02, 2001 3:36 PM

Subject: OT: digital camera for ham pictures

> I would like to get a digital camera for taking pictures of ham =
projects and=20

> events to be able to forward on to inquisitive souls. Sometimes a =
picture is=20

> worh a thousand words. I want a good quality camera in \$500 range (or =
less).=20

> Any recomendations? =20

>=20

> Alan KB7MBI in Woodinville, WA

>=20

> (they will be tiny pictures so this qualifies as QRP--grin)

Date: Sun, 2 Sep 2001 10:55:52 -0600 (MDT)

From: "Karl F. Larsen" <k5di@zianet.com>

To: <qrp-l@lehigh.edu>

Subject: [106284] Tuner Efficincy

Message-ID: <Pine.LNX.4.33.0109021045220.2000-1000000@localhost.localdomain>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

My interest in the Emtech ZM-2 Z match antenna tuner got me interested in it and I looked at the pictures on the web page and saw the transformer is using a powdered iron core. I questioned the use of powdered iron and got a lot of mail both pro and con the ZM-2. Also some help that said to look at a web page that has data from Bob Kellog, AE4IC who did extensive tuner tests.

First I have the schematic of the ZM-2 which I d/l from kj6vu's web page thank you. His page is:

www.qsl.net/KJ6VU/ZM.html

I *Love* the design of the ZM-2. The switch that puts in the swr bridge so you can tune up, and then takes it out so you don't waste power! The balanced toroid transformer that is tuned by C2 so the impedance change can be made. Not sure I like the way the unbalanced coax line is done. But all things considered I think it's a good buy at \$50.00. Better buy a couple more of the 5-256 pf variable caps too. They might be the weak link.

Back to the tuner efficiency question. Below is a copy of part of what Bob Kellog wrote to QRP-L on Aug 20, 1997 from the following web page:

www.qsl.net/wd8rif/archives.htm Antennas

AVERAGE LOSS PERCENTAGE - The average signal loss of all of the SWR/Frequency combinations which would match to 1.1:1 or better.

Results:

MFJ-949E	29%	
ZM-1	22%	
St. Louis	43%	
Murch 2000A	22%	
LDG AT-11	14%	Note: Match was 1.5:1 or better, not 1.1:1.
Super Tee	39%	(Bal = 30%, UnBal = 49%)
MFJ-971	31%	

I take complete exception to what Bob provides here as tuner loss. He is wrong just by a simple test I ran this morning. I have a MFJ 941C antenna tuner that is matching my 130 foot center fed dipole fed with 450 ohm ribbon through the MFJ 4:1 balun. I was transmitting with 100 watts, and about 75 watts average power for over 1 hour. I did listen a bit of course but the average power must have been like 25 watts over that whole hour. When done I felt all over that tuner, and there where the 4:1 balun is mounted I checked with care. There was NO heating of the tuner.

The MFJ-949E is a modern version of my tuner and to say it or mine has a 29% loss means about 1/3 of the power input goes out as heat. If I were to find my amplifier and put 300 watts into that tuner Bob's number says $300 \times .29 = 87$ watts of heat will be dissipated inside the tuner. In short order that tuner will be too hot to touch!

I ran a simple test myself with 2 MFJ tuners hooked together with short open line through the 4:1 baluns. with a good power meter I measured the power in (47 Watts CW) and the power out was 43 watts. This is less than a 10% loss for two tuners so a single MFJ tuner has less than 5% loss.

How Bob Kellog got such a high loss when he measured his MFJ tuner I have no idea. It may be that his tuner was broken.

The ZM-1 seems to have a high loss too. I can't see why that would be the case when the swr circuit is switched out.

Bob Kellog said he used low power to run his tests. Like me, Bob prefers to use his MFJ Antenna Analyser when possible. I cannot think of a way to measure tuner efficiency without putting some power into the tuner and measuring the power out. I have a 200 MHz Tecktronics scope and can measure the p-p voltage across a resistor and calculate power. Even at low power this should be accurate.

While it's proper to Archive QRP-L list messages if you care to, it is not proper to think these achieved messages are correct. In the case of tuner efficiency those from Bob Kellog for the MFJ tuners are wrong.

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Sun, 2 Sep 2001 10:55:45 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-l@lehigh.edu>
Subject: [106285] ZM-2 Transformer test
Message-ID: <Pine.LNX.4.33.0109021046290.2000-1000000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have a large powdered iron toroid form from the LDG balun and I plan to wind 10 turns on each of 2 windings. I will drive this transformer first with my MFJ Ant Anal and see how good the match is when the secondary winding has a 50 ohm load. I might need to tune things a bit but don't know yet.

Then I will put 5 watts into the transformer and measure how much comes out. If it looks good I will try 50 watts and measure.

As long as the loss is down in the < 5% area I will declare the ZM-2 use of powdered iron toroids to be good.

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Sun, 02 Sep 2001 10:14:52 -0700
From: "Jim Sweeden" <Jim_Sweeden@beavton.k12.or.us>
To: qrp-l@Lehigh.EDU
Subject: [106286] FS: S38, KnightSMiTe, QF-1A
Message-ID: <fc.004c4c31018967d43b9aca002052cc45.1896828@beavton.k12.or.us>
MIME-Version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit

For Sale:

S38 with 5 watt mod and Tick keyer. Tested but never used on the air.
Installed in a very nice home built case. \$55

Autek Research QF-1A SSB/CW/AM Filter. Works good and comes with a copy
of operating instructions. \$35

KnightSMiTe kit. Unbuilt, all parts still taped to the information sheet.
\$15

Prices include shipping within the US. Ins. extra.

Postal money order please.

Contact me at jim_sweeden@beavton.k12.or.us

James - KB7LJP

Date: Sun, 2 Sep 2001 13:22:37 -0400
From: "Paul Christensen" <paulc@mediaone.net>
To: <hans.sundstrom@telia.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [106287] Re: digital camera for ham pictures
Message-ID: <000b01c133d3\$dd0cbc80\$7a01a8c0@se.mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Beware of the claims for "Megapixels." In my opinion, this is a lesser factor to consider than the quality of the optics which is every bit as important in digital imaging as it is with film.

Last year, I made the grave mistake of "upgrading" my Sony Mavica MVC-FD91 to a new Mavica model with many more Megapixels. The new FD88 was in the same price class as the FD91 but the ads touted better pixelation and a smaller camera size. The FD88 optics are inferior in comparison to the FD91. The FD91 had a massive lens aperture and matching focal length which took breathtaking digital photos. The same images with the higher megapixel FD88 took very disappointing images, both near and far. I'm sure the digitization process is impressive with the higher pixelation cameras, but the bottom line is how good the digital images look. I will never, ever make this mistake again.

In summary, choose a digital camera with quality optics first, then look at the pixelation specs. Be particularly suspect of "cute," small digital cameras. And above all, look at photo samples from each camera you are considering.

73,

-Paul, W9AC

----- Original Message -----

From: "Hans Sundstrom" <hans.sundstrom@telia.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Sunday, September 02, 2001 12:33 PM
Subject: SV: digital camera for ham pictures

> I can recommend the Nikon line. The new Coolpix 995 (I am using that one myself, as one of my cameras, for professional use) is a very nice camera

with 3,21 megapixels. A little bit more money than you advice, but WELL worth the money. You also have the Coolpix 885, little less money, but with the same CCD.

> Those are cameras to grow into, that you will enjoy the result of. I strongly advice you NOT to buy any of the floppy disk cameras, if you want to get pictures that you can make anything from but view on the computer screen. A jpeg picture with enough resolution to make a decent prinout is at least 1 Mb, and you need a flasch card to load with any reasonable amount of pictures. I recommend a flash card not less than 64 Mb.

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> Another thing: when you look at the zoom capabilities, only look at the optical zoom, the digital zoom does not do you any good since it does not really give you any better resolution, it just cuts the picture.

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> Of course you can go for something cheaper, enjoy it to start with, but you are guaranteed to regret yourself later...

> Good luck an enjoy yourself.

> 73

>

> Hans / SM4ATJ / 7S4A / SM4A

>

> ----- Original Message -----

> From: <ARDUJENSKI@aol.com>

> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

> Sent: Sunday, September 02, 2001 3:36 PM

> Subject: OT: digital camera for ham pictures

>

>

> > I would like to get a digital camera for taking pictures of ham projects and

> > events to be able to forward on to inquisitive souls. Sometimes a picture is

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> > Any recomendations?

> >

> > Alan KB7MBI in Woodinville, WA

> >

> > (they will be tiny pictures so this qualifies as QRP--grin)

>

Date: Sun, 02 Sep 2001 13:24:07 -0400
From: Dave Fouchey <dafouchey@home.com>
To: sgreene@patriot.net,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [106288] Re: digital camera for ham pictures
Message-ID: <4.1.20010902132106.009a9400@localhost>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Steve, one of the things I looked at with the Olympus was the built in lens cover/on off switch. the darn things pretty rugged, I use it in an industrial setting out doors to take shots of cable, pole, tower and equipment installations and damage and it has stood up quite well. Add to that it's modest price and I found it to be a good compromise. Still I keep a couple disposable 35mm in the vehicle just in case.

Dave
WA4EMR/8

At 11:05 AM 9/2/2001 -0400, Stephan Greene wrote:

>On Sun, 2 Sep 2001, Richard Brummer, K2JQ wrote:

>

>> I'm also looking at digital cameras now, and I was impressed by a friend's
>> Nikon Coolpix 950 (discontinued, but still available). The newer model 995
>> is commonly available for around \$900. More than your stated price, but you
>> would probably be happy with the quality of the Nikon line. It's also got a
>> 38-152 mm zoom lens on it. The less expensive Coolpix 775, available for
>> around \$450, has a 38-115 zoom lens.

>

>I've had a 950 for a bit over a year. It is a great camera, but overkill
>IMHO for casual shots for the web. The Nikon's overall quality and
>construction is excellent, with TWO caveats:

>

>- the flash stinks. Too close to the lens for decent red-eye reduction,
>and too weak to do decent indoor photography from greater than about 10'
>away from the subject. An external flash solves this problem, at the cost
>of greater bulk and complexity.

>

>- the lcd display easily washes out in daylight. I knew this beforehand -
>several on-line reviews mention it and my brother warned me (professional
>photographer who owns a 950).

>

>With the lcd display on, power consumption can be high, even using NiMH
>batteries (not a "qrp" camera). I *do* like it, and have been using it a
>lot (see <http://www.00ff00e.com> for examples)

>

>I'd be concerned about taking ANY of the digital cameras on a trip into
>the woods - too easily damaged, too expensive to replace/repair, and you

>are more likely to be carrying it where it can be dropped or dinged than
>the radio in the padded expedition pack. Disposable 35mm cameras are
>cheap, water-resistant, and getting pictures digitized is easy.

>

>72, Steve KA1LM

>

>-----
>Stephan A. Greene sgreene@patriot.net ka1lm@amsat.org
>Herndon, VA 1-703-421-7101 office 1-703-980-3475 cell
>-----

Date: Sun, 02 Sep 2001 10:30:51 -0700
From: "Jim Sweeden" <Jim_Sweeden@beavton.k12.or.us>
To: qrp-l@Lehigh.EDU
Subject: [106289] Re: FS: S38, KnightSMiTe, AF-1A
Message-ID: <fc.004c4c3101896883004c4c3101896883.1896884@beavton.k12.or.us>
MIME-Version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit

The KnightSMiTe has sold

James - KB7LJP

Date: Sun, 2 Sep 2001 13:32:15 EDT
From: RLucch2098@aol.com
To: qrp-l@lehigh.edu
Subject: [106290] Sony, no Balony!
Message-ID: <ea.1a225184.28c3c71f@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Guys;

Been using one Mavica or the other for almost 3 years.

The latest one is a FD-88(1.3 MGpixels) which has been superceded with the
91 0r 92, not sure.

It is a SLR type, has 3 resolution sizes but I opt for 640 x 480 for the WWW,
lithium battery is great, I don't know about if it will last for 500 pictures
because its based on time used in minutes.

After a charge, the standard battery last about 90 minutes of on time, I

suspect it goes faster if you constantly take pics, the flash may cause the time to drop faster also. I never use the Flash.
In this mode of resolution, I get about 20 pics on a floppy.
Higher resolutions gives me about 5 pics on a floppy.
Plus is Auto & manual focus with Macro besides, has a lot of neat features.
There are cameras, even from Sony which give better pics but this is great for the WWW, now maybe if you want to take pics just to print out, then go for the larger pixel size cameras.

My 2 cents worth.

Here is a close up pic, I have taken better ones though!

http://members.aol.com/rlucch2098/qrpp.jpg

Thanks es 73....Rich WA2RQY (1961)

WA2RQY's "confusion Radio" Web-Page

Http://members.aol.com/rlucch2098/index.html

RLUCCH2098@aol.com

"Keep those heaters on"

Date: Sun, 2 Sep 2001 13:35:49 -0400 (EDT)
From: <baltimoremd@baltimoremd.com>
To: Paul Christensen <paulc@mediaone.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [106291] Re: digital camera for ham pictures
Message-ID: <Pine.BSI.4.05L.10109021333210.29479-1000000@vh1.min.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 2 Sep 2001, Paul Christensen wrote:

>
> In summary, choose a digital camera with quality optics first, then look at
> the pixelation specs. Be particularly suspect of "cute," small digital
> cameras. And above all, look at photo samples from each camera you are
> considering.

I've always figured'd that if I buy a camera, I'm gonna buy one from a camera company...on the premise that they may have a better understanding of optics and photography.

Of course, I also might not buy a tank from a grocer.

73
Thom

baltimoremd@baltimoremd.com
http://www.baltimoremd.com/

Thom LaCosta K3HRN Webmaster
Baltimore's Home Page

<http://www.baltimorehon.com/>
<http://www.zerobeat.net>

Home of the Baltimore Lexicon
Home of The QRP Web Ring
and Drake Mail List Pages

Date: Sun, 2 Sep 2001 10:43:03 -0700 (PDT)
From: "M. Neiner" <polohat@yahoo.com>
To: QRP-L <qrp-l@lehigh.edu>
Message-ID: <20010902174303.64499.qmail@web13905.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Do You Yahoo!?
Get email alerts & NEW webcam video instant messaging with Yahoo! Messenger
<http://im.yahoo.com>

Date: Sun, 02 Sep 2001 11:44:40 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: "Karl F. Larsen" <k5di@zianet.com>, qrp-l <qrp-l@lehigh.edu>
Subject: [106293] Re: Tuner Tests
Message-ID: <B7B7CC28.D386%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Karl (Larsen,m not Kanalz) - Sorry I misinterpreted your comment:

"...it looks as if the LDG auto tuner I have works great. It does, in the mobile."

as your endorsement that the LDG has acceptable efficiency, at least for your mobile use.

"I never said the LDG auto tuner was efficient James."

Please accept my apologies. - Dr. Megacycle KK6MC

--

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sun, 2 Sep 2001 10:47:57 -0700 (PDT)
From: "M. Neiner" <polohat@yahoo.com>
To: QRP-L <qrp-l@lehigh.edu>
Cc: Neinerfamily@aol.com
Subject: [106294] Dipole Height
Message-ID: <20010902174757.37489.qmail@web13902.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I'm currently using a G5RV Dipole about 30 ft up and am getting marginal results on 40 meters. I'm sure that most of my signal is going straight UP since the antenna isn't even close to being 1/2 wave-length high. I do have an additional option but wanted to run this by you guys before I spend an afternoon in the tree's!

One end is pretty much as high as it can go at 30 FT, but I can raise the other end about 10 to 20 feet more. What kind of change in pattern's and take-off angle could I expect with one end at 30 ft and the other at 50 to 60 feet?

Any help would be much appreciated!

73
Mike/KC7MAW

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<http://im.yahoo.com>

Date: Sun, 2 Sep 2001 14:10:17 -0400
From: "Charles W3KC" <w3kc@starpower.net>
To: <qrp-l@lehigh.edu>
Subject: [106295] Re: digital camera for ham pictures
Message-ID: <001901c133da\$aee1dae0\$5b102c42@w3kc>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Other considerations are the battery type, computer interface, and zoom. Some of the digital cameras use unique batteries that are pricey. I chose the Fuji FinePix 2400. Uses ordinary AA batteries, has a USB (fast) interface, good optics with an Optical Zoom of 3X, and 2.1 megapixel CCD. IMHO Digital Zoom is an overrated "feature", you can do this with your PC software after you upload the image.

72 de Chas W3KC

Date: Sun, 2 Sep 2001 10:44:29 -0700
From: "Kevin Nathan" <k7rx@earthlink.net>
To: <qrp-l@lehigh.edu>
Subject: [106296] Tuning Antennas
Message-ID: <000001c133db\$58c144c0\$6501a8c0@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi All,

I'm back on after a long absence and it is nice to read everyone again.

I do have a question. This regards antennas changing resonance with differences in location. For example, I've read articles in QST regarding expeditions to islands and camping on various trails and guys talk in these articles about tossing a dipole over a tree or other types of simple antenna installations. What I wonder about is how do you keep these antennas from changing resonance to the point where the rig won't work with it at all? How picky are these QRP radios in terms of swr and the like? I am blind and tried a ZM2 tuner when I was living in a hotel room here before my family was able to move here to Western Washington from Idaho but had no luck at all using it to tune antennas and was not able to get out. It relies on a light to show resonance and the peak of band noise didn't seem to match the light resonance. I want to do some more QRP work and don't want to be bound to the house so would appreciate some thoughts on how to keep antennas close to resonance in a variety of locations.

Thanks much for your thoughts and 72 to all.
Kevin, K7RX

Date: Sun, 2 Sep 2001 11:35:07 -0700 (PDT)
From: Jack WsixABC <w6abc@yahoo.com>
To: qrp-1@Lehigh.EDU
Subject: [106297] Digital Camera Reviews Website
Message-ID: <20010902183507.40873.qmail@web14205.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi,
This is the ultimate Digital Camera Review Website.
Everything you need to know about any digital camera
is here. Great resource, and was very helpful to me
when I was making my first digital camera purchase.

<http://www.dpreview.com/>

BTW I am using the Nikon Coolpix 990 and IMHO the
Nikon 995 is the best on the market right now.

72,
Jack W6ABC

=====
Website: <http://home.pacbell.net/friday2k>
QRP-L #2193 K2#1272 K1#37

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<http://im.yahoo.com>

Date: Sun, 02 Sep 2001 12:39:58 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: <qrp-1@lehigh.edu>
Cc: <k5di@zianet.com>
Subject: [106298] Re: Tuner Efficency
Message-ID: <B7B7D91E.D38A%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Karl (Larsen, not Kanalz) - I believe that Bob's measurements on tuners are adequate and proper.

As he said in the preface, which you quoted, the numbers given are averages of all the matching conditions, half will be better, and half will be worse. In general; the efficiency of a Tee match through a 4:1 voltage balun to a low impedance, low radiation resistance load will be worst. Try your experiment with say a 40 M dipole loaded on 80 M, or a 80 M dipole on 160 M. Or better yet, tune the MFJ to match a 5 to 10 Ohm dummy load. Then apply your 100 W key down for an hour and then feel (or smell) your tuner for heating.

Let us analyze the experiment you ran this morning. Since you didn't specify whether you ran CW or SSB. Let us analyze your experiment for the two cases.

CW

Assume half the time was spent transmitting and half the time receiving. In addition, the duty cycle of CW is about 40%.

With 100 Watts on transmit (What happened to the QRP aspect of this thread?), the average power is:

$$P_{av} = P_{trans} + P_{recv}$$

$$P_{av} = 100(1/2)(0.4) + 0(1/2) = 20 \text{ W}$$

Now, if the tuner were operating at 29% inefficiency, then the average power dissipated in the tuner due to inefficiencies is:

$$P_{dis} = (0.29)(20W) = 4.8 \text{ W}$$

Now I am not sure how much thermal mass your tuner has, but 4.8 W will probably not raise the temperature of your tuner too much. Maybe not even enough to feel.

SSB

Again we will use the same assumptions as with CW, except the duty cycle for SSB is more like 20%, so

$$P_{av} = 100(1/2)(0.2) + 0(1/2) = 10 \text{ W}$$

$$P_{dis} = (0.29)(10 \text{ W}) = 2.9 \text{ W}$$

Which will raise the tuner temperature even less than the CW case.

So I think that Bob's numbers are consistent with your experiment.

QRP-L is not a referred forum. As such, the quality and correctness of posts varies over a wide range from patently false to nearly professional quality. There is a lot of stuff in the middle ground, mine included. That is also the case with much of the stuff on the internet. Bob's posts on tuners are of much higher quality than what we normally see on QRP-L. His techniques are well documented and his methods scientific. Your complaints about his numbers stem, at least from what I can tell, from a single data point, while Bob clearly states that his numbers are averaged over a variety of conditions.

Bob did a good job on his antenna tuner posts. WD8RIF is doing a service to the community by providing these in his archives. These gentlemen should be congratulated for this effort, not condemned.

I only hope that my posts (and yours as well) can approach the quality of technical content that Bob's posts have. - Dr. Megacycle KK6MC/5

--

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sun, 2 Sep 2001 13:02:36 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-l@lehigh.edu>
Subject: [106299] ZM-2 toroid test
Message-ID: <Pine.LNX.4.33.0109021247080.2427-1000000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have a toriod that is 1 and 1/2 inches in outside diameter that I wound up using 5 turns on each winding to match pretty well a 50 ohm load to a 50 ohm source, the MFJ Ant Anal.

I then put the input of the transformer to the output of my MFJ 941C tuner and the output winding to a 15 watt 50 ohm dummy load. I put my TS-50 on the 5 watt power and tuned the whole thing to 50 +j0 at the TS-50.

With 5 watts it was possible to get a good coupling and the dummy load got warm and the toriod was cold. I suspect the power transfer through the transformer was effecient.

With 50 watts the SWR changed a lot and I could not get a good SWR. The toriod got warm and I think that indicates that the toroid is saturated and also that the load impedance changed.

So I conclude that the powdered iron toroid will work as a tranformer until it saturates. This occurs between 5 and 50 watts at 10 MHz for a large 1 1/2 inch toroid.

I was informed that the new MFJ tuners have an air wound toroid core for their 4:1 balun. Interesting.

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Sun, 2 Sep 2001 14:06:58 -0500
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "'BethDan@pacbell.net'" <BethDan@pacbell.net>,
"Low Power Amateur Radio Discussion (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [106300] RE: Math Theory Help - Calculator
Message-ID: <01C133B8.88898F00.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Dan-

This calculator is really slick. I was going to do one of those myself once, but was too lazy, not a good enough programmer or both.

I also backed up on the link you posted to see the rest of your web page and found your Excel spreadsheet transmission line calculator and Smith Chart simulator. Very slick! Somehow, I just blew by your article on this program in the April 2001 QQ when it came out, but I now I've gone back and looked it over. It's so sophisticated that it's almost too much for a neophyte to take in. Also, my Excel somehow got a chicken bone lodged in it's throat and starts complaining about finding libraries when I try to do any calcs. But I'll get that figured out and hope to expand my Smith Chart knowledge with your program.

I've also got an Excel spreadsheet (who doesn't?) that does a variety of ham calculations ranging from trite to pretty exotic, if anyone is interested. I'm afraid that my ability to make Excel walk and talk with Visual Basic needs a little work, though.

72--Nick, WA5BDU

-----Original Message-----

From: Beth Gardner / Dan Maguire [SMTP:BethDan@pacbell.net]

All this talk about impedance and complex numbers reminded me that a few years ago I wrote a BASIC program to do the math. Program Zmath does conversions and math functions on impedance values. (Also works on complex numbers in general, remembering that $A+Bi$ is equivalent to $R+jX$.) Data may be entered in any of five forms:

1. Series form R and X ;
2. Z magnitude and angle;
3. Parallel R_p and X_p ;
4. Capacitance (pF) and frequency (MHz);
5. Inductance (uH) and frequency (MHz).

Zmath is available at

<http://www.qsl.net/ac6la/zmath.bas>

73,

Dan AC6LA

Home page: <http://www.qsl.net/ac6la/>

Date: Sun, 2 Sep 2001 21:14:32 +0200

From: "Hans Sundstrom" <hans.sundstrom@telia.com>

To: <paulc@mediaone.net>,

"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [106301] SV: digital camera for ham pictures

Message-ID: <003f01c133e3\$7f1722e0\$9b8541d5@telia.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

----- Original Message -----=20

From: Paul Christensen <paulc@mediaone.net>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Sunday, September 02, 2001 7:22 PM

Subject: Re: digital camera for ham pictures

> Beware of the claims for "Megapixels." In my opinion, this is a =

lesser

> factor to consider than the quality of the optics which is every bit =
as
> important in digital imaging as it is with film.
>=20

This is also good advice, the rest of the camera is very important, not =
only the megapixels. The details have to reach the CCD before they can =
be recorded. That is why I suggested Nikon or any other well known brand =
of cameras. You need quality in all parts of the camera. Of course in =
the optics, but also in the other parts of the camera. For instance I =
get clearly better results with my Nikon F4 than with a 801, with the =
same optics attached.

This is also why I have always through the years used Nikon. Hasselblad =
and Leica in my work. But of course there are others to look at too, =
like Canon for instance, I have never been a "Canon man" though, but =
that is merely because I have got used to Nikon in the first place.
There are reasons why these big brands are used by professionals. And =
their skills in making good cameras are used when making less expensive =
products too.

If you really want good digital pictures you should go for cameras like =
the D1X from Nikon. Then you can use the whole Nikon lens programme. But =
that is in a totally other price range.

73 es gl

Hans / SM4ATJ / 7S4A / SM4A

Date: Sun, 02 Sep 2001 11:51:13 -0800
From: Jim Larsen AL7FS <AL7FS@pobox.alaska.net>
To: "qrp-1@lehigh.edu" <qrp-1@lehigh.edu>
Subject: [106302] Digital camera suggestions: Olympus Camedia D-360L
Message-ID: <3B928DB1.B088E461@pobox.alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I suggest a 1.3 Megapixel camera, not one limited to 600x480.
As you get familiar with your camera you will start using it for
family shots and then you will want the higher settings.

I use a Olympus Camedia D-360L (Now in mid to low \$200s), a 32 MB Smart

Media Card (Not sure on cost...maybe \$30-40), and a Lexar Media reader (about \$40-50) Model GS-UFD-20SA-TP hooked up to the USB port. While not necessary (and it is very expensive), I also picked up the Floppy Disk adaptor for when I travel. I take the program on a 3.5 inch disk and the adaptor and then I can load files to a PC on the trip. I used this in Japan. If I had bought the Lexar first, I may have tried to take that with me instead, I just don't know how big the program is. The Lexar is by far the best method of getting files to the PC...very fast. Use only Nickel Metal Hydride batteries or better with the camera not alkaline. I bought my camera at Walmart and it came with the better batteries. I also liked Walmart's return policy which I used when I noted one of the pixels on the screen was bad. Oh, this camera has both the viewfinder and the LCD screen for viewing. I have a Sony Digital Mavica and you cannot see the screen in the sunlight on this older modle camera.

This camera will focus down to 4 inches which is not bad.

I usually always leave the fill flash on and I get beautiful pictures with it.

Using th 32MB Flashdisk:

I get about 76 pictures on highest res. Files are about 300-400KB. I use this all the time and then if I need the file for Internet, I use MS Photo Editor to reduce the size of the picture. Over time, I came to the realization that I can always reduce a file but I can never increase its resolution. I printed an 8x10 of my Mom's big fish at this resolution and it looked great.

I get about 144 pictures on middle res. Files are about 150-230 KB.

I get about 444 pictures on Internet res. Files are bout 45-85 KB.

Jim, AL7FS

Date: Sun, 02 Sep 2001 15:26:14 -0500
From: Dave Sjolin <sjolin@swbell.net>
To: polohat@yahoo.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [106303] Re: Dipole Height
Message-ID: <3B9295E6.318E9CC6@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

"M. Neiner" wrote:

>
> I'm currently using a G5RV Dipole about 30 ft up and
> am getting marginal results on 40 meters. I'm sure
> that most of my signal is going straight UP since the
> antenna isn't even close to being 1/2 wave-length
> high. I do have an additional option but wanted to run
> this by you guys before I spend an afternoon in the
> tree's!
>
> One end is pretty much as high as it can go at 30 FT,
> but I can raise the other end about 10 to 20 feet
> more. What kind of change in pattern's and take-off
> angle could I expect with one end at 30 ft and the
> other at 50 to 60 feet?
>
> Any help would be much appreciated!

Mike, if you are not happy with the low dipole than I would suggest putting up a loop antenna (either delta or rectangular). The antenna would offer slight gain over a dipole and lower angle of radiation, making it better for dx. The top part of the loop at 30 feet would work just fine so there would be no need to go higher. The loop could also be used on other bands depending on how you feed it and what you have for an antenna tuner.

ARRL handbook, ARRL Antenna Handbook and many other ARRL antenna publications show the loop that Im referring to. I think its even in some of their Novice publications.

73 de Dave, N0IT

Date: Sun, 2 Sep 2001 11:05:47 -0500
From: n4so@juno.com
To: qrp-l@lehigh.edu
Subject: [106304] Evaluate Your Antenna Tuner- 1995 QST mag.
Message-ID: <20010902.154351.7838.7.N4S0@juno.com>

QST magazine 1995

How to Evaluate Your Antenna Tuner Part 1 (Witt) April QST p. 30
How to Evaluate Your Antenna Tuner Part 2 (Witt) May QST p. 33

Also compare Getting the Most Out of Your T-Network Antenna Tuner, (Griffith) Jan QST p. 44.

Ken Brown-N4S0
Mobile, AL EM50tk
NorCal-20 at 5 watts
and 4 ele. yagi
Elecraft K1

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 02 Sep 2001 14:19:13 -0700
From: Chris Trask <ctrask@qwest.net>
To: AL7FS@pobox.alaska.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [106305] Re: Digital camera suggestions: Olympus Camedia D-360L
Message-ID: <3B92A251.4A5E5F65@qwest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Myself, I'm waiting for Olympus to offer a digital camera that will accept the Zuiko lenses that they use with their 35mm cameras. I invested a lot of \$\$ many years ago for these, and I'm very familiar with how to use them and when. I also have a lot of filters that go with them and don't want to invest in more just for a new style of camera.

I like the newer digital cameras, and won't settle for anything less than 1.3M. But I do want the flexibility that comes from being able to change lenses and use filters and close-up lenses.

Chris

Jim Larsen AL7FS wrote:

>

> I suggest a 1.3 Megapixel camera, not one limited to 600x480.

> As you get familiar with your camera you will start using it for

> family shots and then you will want the higher settings.

>

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> Media Card (Not sure on cost...maybe \$30-40), and a Lexar Media reader
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 > The Lexar is by far the best method of getting files to the PC...very
 > fast. Use only Nickel Metal Hydride batteries or better with the camera
 > not alkaline. I bought my camera at Walmart and it came with the better
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 > noted one of the pixels on the screen was bad. Oh, this camera has both
 > the viewfinder and the LCD screen for viewing. I have a Sony Digital
 > Mavica and you cannot see the screen in the sunlight on this older modle
 > camera.
 >
 > This camera will focus down to 4 inches which is not bad.
 >
 > I usually always leave the fill flash on and I get beautiful pictures
 > with it.
 >
 > Using th 32MB Flashdisk:
 > I get about 76 pictures on highest res. Files are about 300-400KB. I use
 > this all the time and then if I need the file for Internet, I use MS
 > Photo Editor to reduce the size of the picture. Over time, I came to
 > the realization that I can always reduce a file but I can never increase
 > its resolution. I printed an 8x10 of my Mom's big fish at this
 > resolution and it looked great.
 >
 > I get about 144 pictures on middle res. Files are about 150-230 KB.
 >
 > I get about 444 pictures on Internet res. Files are bout 45-85 KB.
 >
 > Jim, AL7FS

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     /  What's all this  \
    / extinct stuff, anyhow? \
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High Performance Mixers and
Amplifiers for RF Communications

Chris Trask / N7ZWY
 Principal Engineer
 Sonoran Radio Research
 P.O. Box 25240
 Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: ctrask@qwest.net

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<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Sun, 2 Sep 2001 17:18:45 -0400
From: "ZOOM" <kandrparker@sympatico.ca>
To: <AL7FS@pobox.alaska.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [106306] Re: Digital camera suggestions: Olympus Camedia D-360L
Message-ID: <00c801c133f4\$d9c22260\$3294fea9@RobertParker>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You can't see any LCD screen in direct sunlight!!!
Make a shade for it with a piece of black bristle board. Works for me!

----- Original Message -----

From: "Jim Larsen AL7FS" <AL7FS@pobox.alaska.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, September 02, 2001 3:51 PM
Subject: Digital camera suggestions: Olympus Camedia D-360L

> I suggest a 1.3 Megapixel camera, not one limited to 600x480.
> As you get familiar with your camera you will start using it for
> family shots and then you will want the higher settings.
>
> I use a Olympus Camedia D-360L (Now in mid to low \$200s), a 32 MB Smart
> Media Card (Not sure on cost...maybe \$30-40), and a Lexar Media reader
> (about \$40-50) Model GS-UFD-20SA-TP hooked up to the USB port. While
> not necessary (and it is very expensive), I also picked up the Floppy
> Disk adaptor for when I travel. I take the program on a 3.5 inch disk
> and the adaptor and then I can load files to a PC on the trip. I used
> this in Japan. If I had bought the Lexar first, I may have tried to
> take that with me instead, I just don't know how big the program is.
> The Lexar is by far the best method of getting files to the PC...very
> fast. Use only Nickel Metal Hydride batteries or better with the camera
> not alkaline. I bought my camera at Walmart and it came with the better
> batteries. I also liked Walmart's return policy which I used when I
> noted one of the pixels on the screen was bad. Oh, this camera has both
> the viewfinder and the LCD screen for viewing. I have a Sony Digital
> Mavica and you cannot see the screen in the sunlight on this older model
> camera.
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> I get about 444 pictures on Internet res. Files are bout 45-85 KB.
>
>
> Jim, AL7FS
>

Date: Sun, 2 Sep 2001 22:30:54 +0100
From: "G3MFJ" <g3mfj@btinternet.com>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [106307] Sprat 108
Message-ID: <00a501c133f6\$8d1f61a0\$02010080@graham>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hi

In a few days, I shall be sending the mailing labels for Sprat 108 to the printer.

If you have not renewed your membership, not only did you not get Sprat 107, nor will you get Sprat 108, but neither will you be able to take advantage of our latest offer - a Mini

Circuits double balanced mixer at two for the price of one! There is also a new "starter"

SMD kit offer as well as the usual high quality articles!

Membership is only GBP6 for Europe and GBP8 (US\$14) DX.

If you hurry, you can get your renewal to us in time!

There is also just time to join - but be quick - joining information is the same

as the
renewal information below!

Credit card renewals to John Leak at
g0bxo@gqrp.com

GBP cheques to John Leak at:
Flat 7
56 Heath Crescent
Halifax
West Yorks
HX1 2PW

North American members can renew with Bill N8ET:
kanga@bright.net

If you are not sure of your membership status, check the mailing label on your
last Sprat.

If it had 2001, you are safe for three (and only three) more issues including
issue 108.

For those of you who have lost the label!! e-mail me at g3mfj@gqrp.com & I'll
confirm your
membership (or not as the case may be!)

Be quick!!!

72/3
Graham

Date: Sun, 2 Sep 2001 16:38:01 -0500
From: "Mike Branca" <w3irz@att.net>
To: <qrp-l@Lehigh.EDU>
Subject: [106308] Re: WIRE FOR BALUNS
Message-ID: <001501c133f7\$8bd33d20\$e90c4d0c@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Donald, I have used zip cord to make baluns for twenty years with no
problems. It sure makes it easy to wind. I have also used speaker zip as
well as some very heavy speaker lead. At HF the 3 feet of the stuff you may

use is not long enough to matter even if it is lossy.

Mike Branca W3IRZ in Conyers Georgia

Date: Sun, 2 Sep 2001 16:12:48 -0600
From: "David Ek" <ekdave@earthlink.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [106309] free contest logging software for Palm computers
Message-ID: <000901c133fc\$68a36b40\$0100a8c0@oldman>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,

I've been working for a while on some Palm software for doing ham radio contest logging, mainly for use in the field. Some of you may have seen the article I wrote for the Summer QRP Quarterly which described the CW sending hardware which goes along with it.

Well, I've finished the first version of the software for the Palm, and it's now on my web site for downloading. The software is called Golog and has the following features:

- customizable for pretty-much any contests
- does dupe-checking
- includes a Windows conduit for use with Palm Desktop software, so you can get your logs from your Palm to your PC (as an ASCII file)
- includes a setup program for getting the Palm software and Windows conduit software installed
- it works with the Serial CW sender device I designed and published in QQ (but can also be used without it)
- it's freeware

Some shortcomings:

- it doesn't do much error checking of your log entries
- you can't vary your outgoing exchange (e.g. RST) from one contact to the next without some work (please, no hate mail--I'll add it for the next version)
- this really isn't suitable for general QSO logging, only contest logging

I used this hardware and software during Field Day this year, portable on the top of Mt. Herman, and logged 175 contacts with it, so it's usable. But

if you don't like the Graffiti input, you're not going to like this software (although you can pop up the "keyboard" whenever you want, I suppose). At any rate, it's free so you can give it a try.

The Palm app itself only takes up about 40KB of space, but the setup program which includes the desktop conduit is about 1.1MB in size. You can download the software from my web site:

<http://home.earthlink.net/~ekdave/golog.html>

While you're at it, go through the front door at

<http://home.earthlink.net/~ekdave/> and sign the guestbook.

You'll also see a link to a slightly-updated version of the QQ article on the serial CW sending hardware (including the PIC code), in case you're interested.

If you give any of this a try, let me know what you think.

73 de Dave NK0E

Date: Sun, 2 Sep 2001 15:23:52 -0700
From: "David Adams" <david@theadamsclan.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [106310] Re: digital camera for ham pictures
Message-ID: <005001c133fe\$04a9c830\$341010ac@sj.bdx.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'm a big fan of the epson line of cameras. I currently use an 850Z, but have been seriously considering the 3100Z as an slr based digital is out of the question for the time being. Picture quality is excellent. The 3100Z will do 3.3 M optical and 4.8 MP HyPict, has the option for uncompressed images, and uses compact flash.

Dave

Date: Sun, 2 Sep 2001 17:09:13 -0500

From: "Brice D. Hornback" <bdh@cyberbound.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [106311] Antenna Design
Message-ID: <072a01c133fb\$e6ea30c0\$6f01a8c0@lwrnc1.in.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi. I'll start out by saying I don't have any antenna books (other than some ~1911 or so Radio Design Books) and I can't go out and buy any right now. So... that said...

Does anyone have any ideas for a "Stealth" and portable multi-band antenna? I'd like something that covers 10, 15, 20, 40, & 80 meters. 6 and 2 meters would be an added bonus. I'm looking for ideas, Web sites that have plans (yes, I've already done a LOT of searching on my own but I'd like to hear what you all have been using that actually works), etc. I'd also consider a commercial antenna but if I could afford that I'd go buy some ARRL Antenna books. :-)) I don't currently have an antenna tuner so maybe some pointers towards an inexpensive KIT or ??? My power requirements range from 20mW to 200 watts.

Or, does anyone have such an antenna laying around they aren't using anymore?

I live in a subdivision that will not allow a permanent antenna on the outside of my house. Radio isn't much fun without an antenna and the dipoles I've built for 10 meters don't work well in my dining room. The LOOP antennas are very interesting to me. Can one be built that will cover all those bands? Perhaps one with switched multiple secondary loops? A J Pole design is also something I'd consider if it could be made short enough.

Thanks for any suggestions, hints, tips, ideas, etc.

72 de Brice KA8MAV
Indianapolis, IN

End of QRP-L Digest 2300

